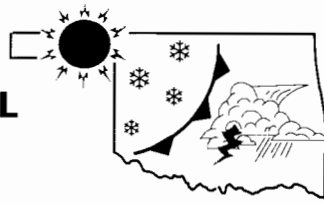


**OKLAHOMA
CLIMATOLOGICAL
SURVEY**



KENNETH C. CRAWFORD
Director and State Climatologist

MARK L. MORRISSEY
Associate State Climatologist for Research

RENEE A. McPHERSON
Assistant Director

HOWARD L. JOHNSON
Associate State Climatologist for Service

CERRY J. LEFFLER
Assistant to the Director

Oklahoma Climatological Survey • The University of Oklahoma • Sarkeys Energy Center • 100 East Boyd Street • Suite 1210 • Norman, OK 73019-1012

**OKLAHOMA
MONTHLY SUMMARY
REVISED
MARCH, 1998**

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MONTHLY SUMMARY FOR MARCH 1998

March 1998 was cool and very wet in Oklahoma. According to preliminary data from the National Weather Service, monthly precipitation across the state averaged 5.44 inches (2.63 inches greater than normal), the third highest March precipitation in the state since 1892. The statewide-averaged temperature of 46.3 degrees (4.4 degrees lower than normal) ranks this as the 20th coolest March over the 107 years of available data. The precipitation, which included substantial snow storms, persistent widespread rains and locally-heavy thunderstorms, brought the year-to-date statewide-averaged precipitation to 10.48 inches, 4.67 inches ahead of normal and the fourth largest January through March precipitation on record. The cool month partially offset the mild first two months of the year to provide the state with its 47th warmest January through March. The 3-month average temperature of 43.7 degrees was 0.8 degree above normal.

The month's significant weather began on the 5th when a thunderstorm at Tom (McCurtain County) produced hailstones one-and-three-quarters inch in diameter. Other thunderstorms on the 6th and continuing into the early morning hours of the 7th produced large hail in Bryan, Oklahoma, and Comanche counties. Rain and snow spread across the state on the 7th. The Pryor Mesonet site (Mayes) recorded 3.82 inches of rain and Coleman (Johnston) reported 3.55. Measurable snowfall included 6 inches at Boise City (Cimarron) and 5 inches at Buffalo (Harper). Snow accumulations of three inches or more were commonplace in northwestern Oklahoma, but Kingston (Bryan) and Waurika (Jefferson), both in extreme southern Oklahoma, reported 2- and 1-inch snow accumulations, respectively. Bitter north winds hammered the state on the 8th and 9th, bringing with them frigid air. Sixty-three of the state's Mesonet stations recorded daily-average winds in excess of 20 miles per hour on the 8th, led by the Minco site (Grady) where the 24-hour average wind speed was 33.5 miles per hour. Temperatures descended into the sub-teens in much of the northwest, including 4 degrees at Fort Supply Dam on the morning of the 11th.

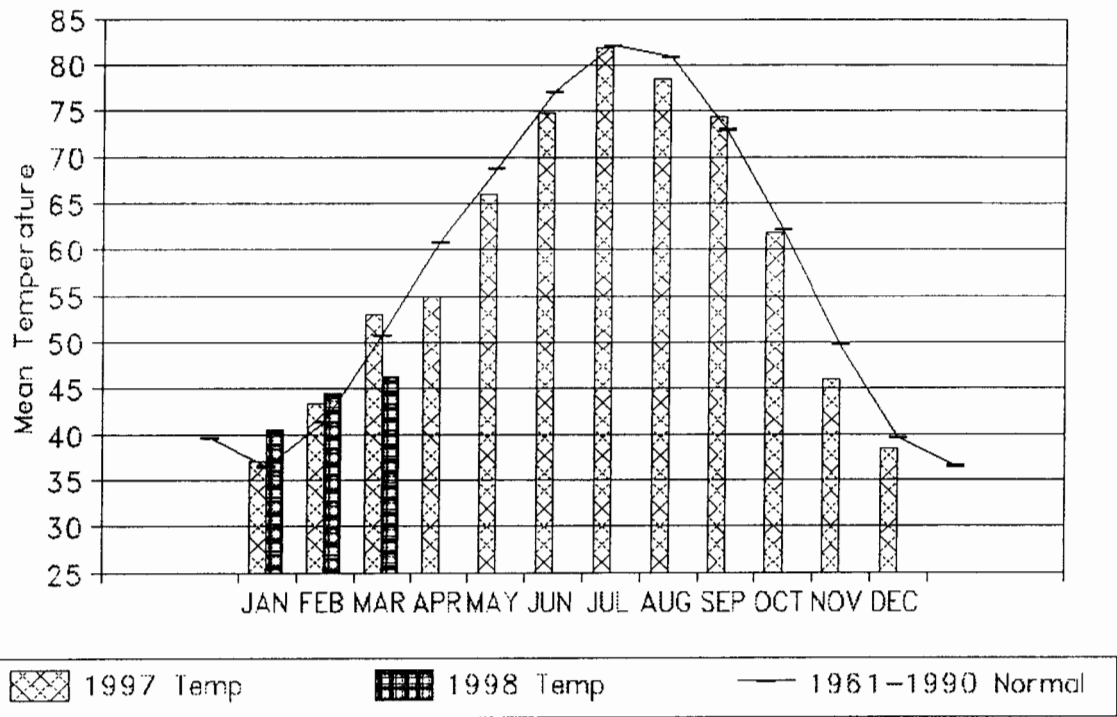
A second winter storm swept through the state on the 15th and 16th, introducing a week-long period of frequent and widespread rain that produced flooding in many areas of the state. Boise City acquired another 4 inches of snow, but rain prevailed elsewhere. Comanche (Stephens) accumulated 6.76 inches of rain over the period, as Allen (Pontotoc), Ketchum Ranch (Stephens), Calvin Mesonet (Hughes), Burbank Mesonet (Osage), Spencer (Oklahoma), Stillwater Mesonet (Payne), and Cherokee (Alfalfa) each also netted over 5 inches of liquid precipitation. Flooding was reported on Bird Creek at between Skiatook and Sperry in Tulsa County, along the Poteau River near Panama (LeFlore) and along the Cimarron, North Canadian, Washita, North Fork of the Red, and Deep Fork rivers. Roads and highways were closed in many parts of the state and the Cimarron River, while modifying its course, severely eroded the river bank at the community of Twin Lakes south of Crescent (Logan), destroying four homes and threatening others.

A cold front and its associated upper-air system produced damaging winds in south central Oklahoma on the 18th. Mesonet sites near Ninnakah (Grady) and Pauls Valley (Garvin) recorded 74 and 73 mile-per-hour peak winds, respectively, and wind damage was reported in Pauls Valley, Chickasha (Grady), and Blanchard (McClain). Over three inches of snow fell on the northwest on the 18th and 19th, including 11 inches at Boise City and 10 inches at Gate (Beaver).

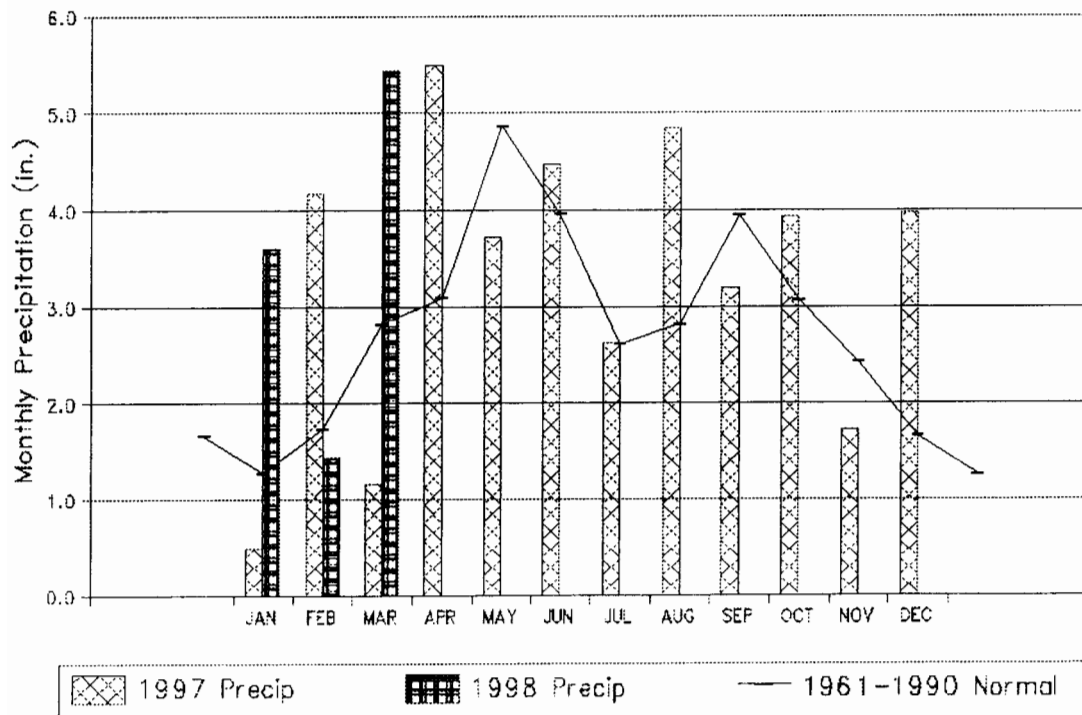
Strong winds and warm weather provided enough drying to spark grass fires near Tahlequah (Cherokee) on the 25th. Temperatures in northwestern Oklahoma rose into the 90s, including a high of 94 at Gage (Ellis), and the Hooker Mesonet site (Texas) recorded a 63 mile-per-hour peak wind on the 26th. A thunderstorm in Ellis County produced three-quarter-inch hail on the 27th. Strong surface winds, enhanced by thunderstorms in some areas, caused widespread damage on the 27th, most noticeably in Okmulgee and Pittsburg counties. The winds at Hinton Mesonet (Caddo) averaged 28.7 miles per hour for the day to lead the 57 Mesonet stations that had daily average wind speeds in excess of 20 miles per hour.

One more winter storm impacted the state from late on the 29th through the 30th. Large hail was reported in much of south central Oklahoma, thunderstorm winds estimated at 70 miles per hour struck Chickasha and Daugherty (Murray). The Eufaula Mesonet site (McIntosh) reported a peak wind of 62 miles per hour. While many reporting stations were reporting an inch or so of rain, the Cimarron County reporting stations (Kenton, Regnier, and Boise City) were recording one-and-one-half to three inches of snow.

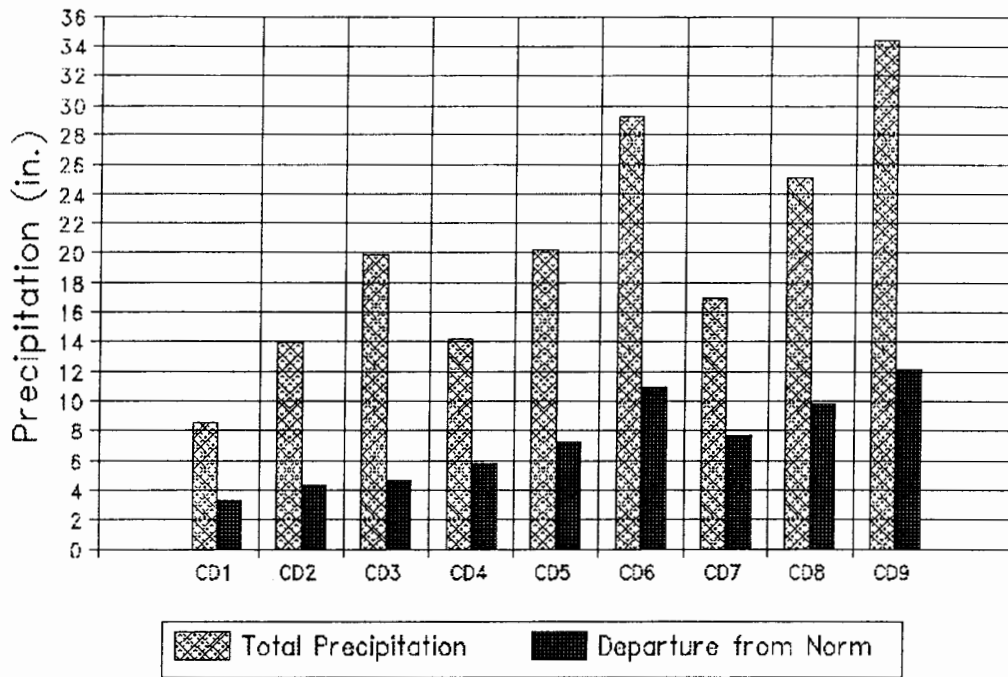
1997 and 1998 STATEWIDE TEMPERATURES Monthly Averages



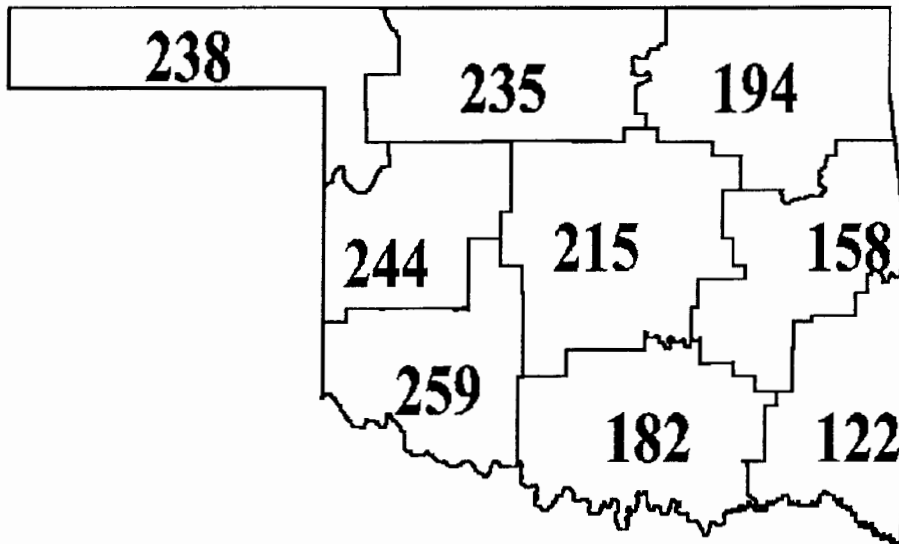
1997 and 1998 STATEWIDE PRECIPITATION Monthly Totals



CD Averaged Precipitation October 1997 through March 1998



CD PERCENT OF NORMAL PRECIPITATION MARCH 1998



**EXTREME VALUES OF TEMPERATURE AND PRECIPITATION IN EACH CLIMATE DIVISION
MARCH, 1998**

CD	MAX TEMP	DATE	LOCATION	MIN TEMP	DATE	LOCATION	24-HOUR PRECIP	DATE	LOCATION	MONTHLY PRECIP	LOCATION
1	94	25	GAGE	8 8	10 10	BEAVER GAGE	1.80	16	ARNETT	4.53	GATE
2	87	25	WAYNOKA	4	11	FT SUPPLY	2.55	16	WAYNOKA	7.27	NEWKIRK
3	85	28	MANNFORD	11 11 11	12 13 10	MIAMI MIAMI PAWHUSKA	3.44	16	BURBANK	8.37	PAWHUSKA
4	92 92	26 26	ERICK REYDON	10 10	10 11	REYDON REYDON	2.51	16	COLONY	6.41	COLONY
5	86	26	CHANDLER	7	10	PURCELL	3.10	16	COX CITY	7.67	INGALLS
6	85 85 85	28 29 29	MCCURTAIN MCCURTAIN OKMULGEE	11	12	HANNA	4.35	18	CALVIN	9.98	WESTVILLE
7	91	25	HOLLIS	14 14 14 14	10 11 12 13	ALTUS DAM ALTUS DAM ALTUS DAM ALTUS DAM	3.17	16	WICHITA MT	6.34	WICHITA MT
8	87	28	LINDSAY	15 15 15 15	10 10 12 10	ADA MARLOW MARLOW PAULS VALLEY	3.55	8	COLEMAN	8.71	COMANCHE
9	87	25	WILBURTON	12	9	SMITHVILLE	1.66	31	WISTER	8.65	PAGE

TABLE OF 1997/1998 COMPARISONS

Station	MARCH Temperature (°F)		MARCH Precipitation (in.)	
	1997	1998	1997	1998
Arnett	48.8	39.9	0.08	4.49
Mutual	49.5	41.6	0.04	3.30
Tulsa	52.4	46.6	1.63	7.34
Elk City	52.5	43.2	0.05	4.47
Oklahoma City	52.5	47.3	0.61	6.45
McAlester	****	50.2	****	4.21
Altus Irr Station	56.4	47.5	0.02	4.24
Ardmore	57.9	50.8	0.72	5.68
Idabel	54.2	51.7	5.21	4.06

VARIABLE	STATION	EXTREMES DIVISION	OBSERVATION	DATE
Minimum temperature (°F)	Fort Supply	2	4	11
Maximum temperature (°F)	Gage	1	94	25
Maximum 24-hour precipitation	Calvin	6	4.35	18

MARCH 1998 SUMMARY FOR PANHANDLE DIVISION (CD1)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ARNETT	332	1	39.9	31	-5.9	90	26	10	11	783	188	6	6	4.490	31	2.86	1.80	16
BEAVER	593	1	39.1	31	-5.5	90	26	8	10	807	175	4	4	4.501	31	3.05	1.10	30
BOISE CITY	908	1	41.0	31	-4.3	85	25	11	11	743	132	0	0	2.972	31	2.09	1.33	18
BUFFALO	1243	1	43.0	31	-6	91	26	9	10	686	180	4	-7	2.300	31	0.44	1.40	16
FARGO	3070	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.952	31	2.32	1.59	16
GAGE	3407	1	41.7	31	-6.3	94	25	8	10	739	205	18	11	2.426	31	0.92	0.81	16
GATE	3489	1	40.5	31	-5.3	90	26	10	12	770	168	9	2	4.533	31	2.85	0.98	19
GOODWELL	3628	1	39.1	31	-4.8	91	26	10	10	805	151	3	3	2.310	31	1.44	0.70	9
HOOKER	4298	1	41.9	20	*****	88	26	11	10	464	*****	1	*****	0.000	19	*****	0.00	30
KENTON	4766	1	42.2	31	-0.8	85	25	12	11	706	24	0	0	1.763	31	0.98	0.78	16
LAVERNE	5045	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.801	31	2.10	1.02	17
REGNIER	7534	1	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.870	31	1.14	0.66	16

MARCH 1998 SUMMARY FOR NORTH CENTRAL DIVISION (CD2)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ALVA	193	2	42.0	31	*****	84	26	11	12	714	*****	1	*****	5.660	31	*****	1.76	17
VANCE AFB	302	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.183	29	*****	1.85	17
BILLINGS	755	2	42.9	31	-4.9	80	30	13	12	700	159	15	7	6.192	31	3.50	1.84	16
BLACKWELL 2E	818	2	42.5	31	-5.6	81	29	12	11	708	178	12	6	6.043	31	3.64	2.00	16
BRAMAN	1075	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.852	30	*****	1.54	17
CEDARDALE	1620	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	2.770	31	*****	1.79	16
CHEROKEE	1724	2	41.7	27	*****	82	25	12	14	634	*****	5	*****	6.401	27	*****	2.50	17
ENID	2912	2	42.7	29	*****	81	29	12	12	663	*****	16	*****	5.740	29	*****	2.20	16
FT SUPPLY	3304	2	39.8	31	-6.2	85	30	4	11	785	189	2	-5	5.052	31	3.43	1.74	17
FREEDOM	3358	2	37.3	27	*****	76	22	7	11	748	*****	0	*****	3.630	27	*****	1.12	15
HARDY	3909	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.500	31	*****	1.77	17
HELENA	4019	2	46.6	31	0.3	85	30	17	10	599	19	28	28	5.842	31	3.45	2.18	16
JEFFERSON	4573	2	45.4	30	-3.7	81	28	11	12	597	97	9	2	5.630	30	*****	2.17	15
LAMONT	5013	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.410	31	*****	1.96	16
MEDFORD	5768	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.140	31	*****	1.97	15
MORRISON	6065	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.371	31	*****	2.12	16
MUTUAL	6139	2	41.6	31	-4.6	83	26	10	10	729	146	5	5	3.301	31	1.24	1.39	16
NEWKIRK	6278	2	41.4	31	-7.4	80	29	11	11	740	228	8	-3	7.274	31	4.90	1.80	16
ORIENTA	6751	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.211	31	2.12	1.95	16
PONCA CITY	7201	2	45.3	31	-2.6	82	28	14	12	625	87	13	5	6.033	31	3.50	1.61	16
PERRY	7012	2	44.7	31	-5.8	82	29	13	13	653	189	25	11	5.291	31	2.58	1.87	16
RED ROCK	7505	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.520	31	3.93	2.02	15
WAYNOKA	9404	2	43.2	25	*****	87	25	10	11	549	*****	4	*****	4.350	25	*****	2.55	16
WOODWARD	9760	2	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.482	31	2.66	1.80	16

MARCH 1998 SUMMARY FOR NORTHEAST DIVISION (CD3)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
BARNSDALL	535	3	45.6	31	-4.5	83	28	12	10	618	146	15	5	5.763	31	2.06	1.99	16
BARTLESVILLE	548	3	46.2	31	-4	84	28	13	10	606	138	22	13	6.342	31	3.09	1.63	17
BIXBY	782	3	46.1	31	-2.4	84	29	15	12	596	76	10	2	6.450	31	3.30	2.20	9
BURBANK	1256	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.240	31	4.25	3.44	16
CHELSEA	1717	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.210	31	*****	2.40	7
CLAREMORE	1828	3	45.1	31	-2.9	84	29	14	10	626	94	9	4	7.180	31	3.60	2.72	8
CLEVELAND 2	1902	3	42.8	23	*****	79	25	12	12	512	*****	0	*****	4.592	23	*****	1.77	16
FORAKER	3250	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.533	31	3.71	1.94	17
HOLLOW	4258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.990	31	2.31	1.98	8
HOMINY	4289	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.843	31	2.40	1.68	8
KANSAS	4672	3	47.1	31	-3.3	80	28	12	12	572	108	16	4	5.772	31	1.60	1.37	16
LENAPAH	5118	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.410	31	*****	1.20	17
MANNFORD	5522	3	46.9	30	-4	85	28	12	11	565	117	22	11	6.723	30	*****	1.86	8
MARAMEC	5540	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.702	31	4.50	2.23	16
MIAMI	5855	3	43.0	26	*****	80	27	11	13	581	*****	8	*****	1.441	28	*****	0.52	16
PAWHUSKA	6935	3	45.9	31	-3.7	84	28	11	10	608	122	17	8	8.372	31	5.12	2.04	16
PAWNEE	6940	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.491	31	4.40	2.30	16
PRYOR	7309	3	45.8	29	*****	82	29	14	11	571	*****	15	*****	7.342	30	*****	3.14	8
RALSTON	7390	3	46.0	31	-4	84	27	14	13	609	137	19	12	7.400	31	4.33	2.35	16
SKIATOOK	8258	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.060	31	3.78	2.26	8
SPAVINAW	8380	3	48.3	31	-2.9	80	29	15	12	543	103	26	14	6.542	31	2.96	2.38	8
TULSA	8992	3	46.6	31	-4	84	28	14	10	586	129	17	6	7.343	31	3.88	2.72	7
UPPER SPAV	9101	3	48.2	31	*****	83	26	14	12	550	*****	29	*****	5.641	31	*****	1.63	8
VINITA	9203	3	41.1	24	*****	72	30	13	12	579	*****	5	*****	5.530	24	*****	2.04	8
WAGONER	9247	3	48.8	31	-2.9	83	28	14	12	523	98	21	8	5.961	31	2.39	1.97	16
WANN	9298	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.595	31	*****	1.48	8
WYNONA	9792	3	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.395	31	*****	1.87	16

MARCH 1998 SUMMARY FOR WEST CENTRAL DIVISION (CD4)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
CANTON DAM	1445	4	43.0	31	-4.4	82	26	12	10	687	136	6	0	4.741	31	2.66	2.23	16
CLINTON	1909	4	45.8	31	-5	82	28	13	10	606	157	10	1	4.721	31	2.69	2.13	16
COLONY	2039	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.412	31	*****	2.51	16
CORDELL	2125	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.333	31	3.38	2.26	16
ELK CITY	2849	4	43.2	31	-6.8	82	26	13	12	680	208	4	-4	4.470	31	2.43	1.73	16
ERICK	2944	4	44.4	31	-5.8	92	26	14	13	648	183	8	2	3.473	31	1.77	1.59	16
GEARY	3497	4	47.5	29	*****	80	30	21	11	529	*****	21	*****	5.560	29	*****	1.98	16
HAMMON	3871	4	43.0	30	-4.4	86	26	12	11	668	117	8	2	4.871	30	*****	2.11	16
LEEDEY	5090	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.520	31	2.80	2.12	16
MACKIE	5463	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.930	31	*****	1.97	16
MORAVIA	6035	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.361	31	1.55	0.69	16
OKEENE	6629	4	44.3	31	-6.2	81	25	13	12	653	195	11	2	5.282	31	3.14	2.45	16
RETROP	7565	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.200	31	*****	2.05	16
REYDON	7579	4	42.1	27	*****	92	26	10	11	626	*****	8	*****	4.090	28	*****	1.95	16
SAYRE	7952	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.890	31	2.36	1.92	16
SWEETWATER	8652	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.601	31	*****	1.76	16
TALOGA	8708	4	43.2	31	-5.7	82	26	11	11	681	175	5	-2	4.034	31	2.12	1.80	16
THOMAS	8815	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.600	31	*****	2.33	16
VICI	9172	4	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.583	31	3.35	1.72	15
WATONGA	9364	4	45.4	31	-4.2	81	25	12	10	619	135	13	6	5.604	31	3.39	2.17	16
WEATHERFORD	9422	4	43.3	30	-4.8	80	25	13	10	661	134	9	9	5.100	30	*****	2.12	15

MARCH 1998 SUMMARY FOR CENTRAL DIVISION (CD5)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
AMBER	200	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.560	31	*****	1.90	16
ARCADIA	288	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.020	31	*****	2.50	16
BLANCHARD	830	5	48.7	30	-3.8	82	28	15	10	506	105	16	3	6.454	31	3.76	2.39	16
BRISTOW	1144	5	47.7	31	-4	84	28	13	10	558	134	20	8	7.342	31	4.30	2.76	8
CHANDLER	1684	5	50.6	16	*****	86	26	14	13	241	*****	10	*****	4.580	29	*****	2.00	16
CHICKASHA EX	P 1750	5	48.4	31	-3.8	80	28	16	10	532	123	18	6	6.250	31	3.75	1.36	15
COX CITY	2196	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.360	31	*****	3.10	16
CRESCENT	2242	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.080	31	*****	2.23	17
CUSHING	2318	5	45.1	28	*****	83	29	13	10	574	*****	18	*****	5.610	28	*****	2.00	16
EDMOND	2788	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.500	31	*****	2.45	15
EL RENO	2818	5	47.2	31	-3.1	82	29	17	11	571	108	19	11	5.290	31	2.95	2.29	16
GUTHRIE	3821	5	45.6	31	-5.7	84	30	10	12	621	185	20	9	5.100	31	2.28	2.60	16
HENNESSEY	4055	5	44.2	31	-5.6	77	28	12	12	649	170	5	-3	5.310	31	2.96	2.00	16
INGALLS	4489	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.670	31	*****	2.54	16
KINGFISHER	4861	5	45.3	28	*****	82	29	13	12	567	*****	14	*****	5.340	30	*****	1.57	16
KONAWA	4915	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.420	31	3.21	2.30	15
MARSHALL	5589	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.000	31	3.53	1.73	17
MEEKER	5779	5	46.4	30	-5.3	83	29	14	12	576	152	18	7	6.421	31	3.61	2.65	16
MULHALL	6110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.440	31	*****	1.87	17
NORMAN NWS	6386	5	47.1	31	-5.3	82	28	15	10	566	162	12	-2	6.733	31	3.84	2.43	15
OKEMAH	6638	5	49.9	31	-2.1	85	28	18	12	490	73	21	7	6.272	31	3.12	2.25	16
OKLAHOMA CTY	F.6659	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.235	31	*****	2.41	16
OKLAHOMA CTY	6661	5	47.3	31	-3	81	28	16	10	560	96	13	4	6.455	31	3.75	1.71	16
PERKINS	7003	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.660	31	4.76	2.87	16
PIEDMONT	7068	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.370	31	*****	1.76	16
PRAGUE	7264	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.503	31	3.32	2.42	16
PURCELL	7327	5	45.4	31	-7.1	83	30	7	10	625	225	18	6	6.351	31	3.22	2.50	16
SEMINOLE	8042	5	47.1	31	-6.3	84	28	15	10	573	195	18	0	5.280	31	2.01	2.22	15
SHAWNEE	8110	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.053	31	2.86	2.16	16
STELLA	8479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.720	31	*****	2.46	16
STILLWATER	8501	5	45.5	31	-2.7	83	29	13	10	626	99	23	17	7.103	31	4.31	2.37	16
STROUD	8563	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.901	31	*****	1.65	16
TECUMSEH	8751	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.960	31	*****	2.00	15
TROUSDALE	8960	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.000	31	*****	2.04	16
UNION CITY	9086	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.551	31	2.64	2.42	16
WELTY	9479	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.201	31	*****	1.71	16
WEWOKA	9575	5	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.191	31	2.94	2.37	16

MARCH 1998 SUMMARY FOR EAST CENTRAL DIVISION (CD6)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV FROM NORM	MAX TEMP	DAY	MIN TEMP	DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV FROM NORM	MAX 24-HR	DAY
ASHLAND	364	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.101	31	*****	2.20	16
BEGGS	631	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.960	31	*****	1.76	16
CALVIN	1391	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.410	31	4.61	4.35	18
CHECOTAH	1711	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.651	31	2.95	2.57	16
CLAYTON	1858	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.550	31	*****	1.58	16
DEWAR	2485	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.523	31	1.97	2.20	16
DUSTIN	2690	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.061	31	*****	2.46	16
EUFAULA	2993	6	49.5	30	-3.9	84	28	15	12	489	111	25	6	5.950	30	*****	2.50	16
HANNA	3884	6	48.1	31	-4.6	83	28	11	12	539	142	15	-2	5.090	31	1.02	1.77	16
HASKELL	3956	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.170	31	2.57	1.75	16
LAKE EUFAULA	4975	6	46.5	27	*****	80	26	15	10	517	*****	17	*****	6.490	27	*****	1.70	16
LYONS	5437	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.450	31	2.20	1.22	8
MARBLE CITY	5546	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.750	31	*****	1.56	16
MCALESTER	5664	6	50.2	31	-2	84	28	19	10	487	76	28	14	4.212	31	0.21	1.13	15
MCCURTAIN	5693	6	50.5	31	-3	85	29	19	12	485	108	37	17	4.242	31	0.13	1.10	16
MUSKOGEE	6130	6	49.1	31	-2.9	84	28	15	12	530	114	39	26	5.970	31	2.42	1.48	7
OKMULGEE	6670	6	48.0	30	-1.6	85	29	15	10	535	48	26	17	6.012	30	*****	1.57	16
OKTAHA	6678	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.200	31	*****	2.50	16
SALLISAW	7862	6	47.7	31	-4.6	83	29	16	12	556	150	20	7	6.620	31	2.38	1.71	16
SCIPIO	7979	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.470	31	*****	2.00	16
SCRAPER	7993	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.550	31	*****	3.25	16
SHORT	8170	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.710	31	*****	1.34	16
STILWELL	8506	6	45.6	31	-4.9	79	28	12	12	608	147	7	-4	6.970	31	2.69	2.05	19
TAHLEQUAH	8677	6	48.2	31	-2.9	84	28	13	12	546	103	25	13	5.534	31	1.44	1.71	16
WEBBERS FALL	9445	6	49.6	27	*****	84	29	16	11	444	*****	29	*****	6.690	28	*****	1.94	16
WESTVILLE	9523	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	9.980	31	*****	2.10	20
WETUMKA	9571	6	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.226	31	2.63	2.23	16

MARCH 1998 SUMMARY FOR SOUTHWEST DIVISION (CD7)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MAX TEMP	MIN TEMP	DAY	HEAT		DEV		COOL		DEV	TOT PPT	NUM OBS	DEV		MAX 24-HR	DAY
					FROM NORM	MAX				DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM				MAX	FROM NORM		
ALTUS	179	7	47.5	31	-6	86	25	17	10	555	185	12	-3	4.240	31	2.68	2.42	16				
ALTUS DAM	184	7	45.0	31	-5.8	85	29	14	13	637	188	17	8	5.650	31	3.92	2.71	16				
ANADARKO	224	7	46.3	31	-5.1	80	29	15	10	594	165	13	6	5.720	31	3.55	2.68	16				
APACHE	260	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.490	31	3.14	3.15	16				
ALTUS AFB	447	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	1.162	27	*****	0.50	8				
CARNEGIE	1504	7	47.6	31	-3.8	79	25	19	9	555	125	14	6	6.041	31	4.04	2.75	15				
CHATTANOOGA	1706	7	46.6	29	*****	85	29	18	12	543	*****	9	*****	5.960	30	*****	1.90	16				
DUNCAN 11 W	2668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.430	30	*****	1.39	17				
FREDERICK	3353	7	47.9	31	-3.7	83	29	18	12	548	122	17	6	5.090	31	3.02	2.77	16				
HEADRICK	3998	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.330	31	*****	2.24	16				
HOBART	4204	7	46.3	31	-5.2	80	25	16	12	589	161	11	1	4.554	31	2.88	1.55	16				
HOLLIS	4249	7	47.8	31	-5.1	91	25	15	12	548	160	16	4	3.820	31	2.44	1.99	16				
LAWTON	5063	7	48.0	30	-3.3	83	29	17	12	529	95	18	8	5.721	30	*****	2.60	16				
MANGUM	5509	7	46.8	30	-6.2	86	29	16	12	563	176	18	3	4.431	31	2.90	1.78	16				
LOOKEBA	5329	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.210	31	3.03	2.42	16				
RANDLETT	7403	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.222	31	*****	1.30	16				
ROOSEVELT	7727	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.260	31	3.53	2.39	16				
SEDAN	8016	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.580	31	*****	2.63	16				
SNYDER	8299	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.340	31	3.55	2.97	16				
VINSON	9212	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.820	31	2.35	1.69	16				
WALTERS	9278	7	50.2	31	-3.8	85	29	17	12	489	131	29	12	4.440	31	1.89	1.65	16				
WICHITA MT	9629	7	47.3	31	-2.3	82	29	15	12	570	82	21	10	6.340	31	3.94	3.17	16				
WILLOW	9668	7	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.400	31	*****	2.28	16				

MARCH 1998 SUMMARY FOR SOUTH CENTRAL DIVISION (CD8)

NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MAX TEMP	MIN TEMP	DAY	HEAT		DEV		COOL		DEV	TOT PPT	NUM OBS	DEV		MAX 24-HR	DAY
					FROM NORM	MAX				DEG DAY	FROM NORM	DEG DAY	FROM NORM	DEG DAY	FROM NORM				MAX	FROM NORM		
ADA	17	8	48.6	31	-4.3	83	28	15	10	526	134	16	-1	6.271	31	3.01	1.82	16				
ALLEN	147	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.040	31	*****	2.97	16				
ARDMORE	292	8	50.8	31	-4.7	84	29	19	11	469	149	30	4	5.680	31	2.58	2.68	16				
ATOKA DAM	394	8	49.4	22	*****	85	30	20	10	366	*****	23	*****	5.300	22	*****	2.32	16				
BOKCHITO	917	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.510	31	*****	1.10	9				
CANEY	1437	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.500	31	*****	2.26	16				
CENTRAHOMA	1648	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.200	31	*****	2.60	8				
CHICKASAW	1745	8	48.4	30	-2.9	85	29	17	10	522	86	25	14	4.880	31	1.44	1.25	16				
COLEMAN	2011	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.650	31	*****	3.55	8				
COMANCHE	2054	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	8.710	31	6.08	3.30	15				
DAISY	2354	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.121	31	0.74	1.26	16				
DUNCAN	2660	8	47.3	30	-4.5	81	30	17	10	547	126	15	3	5.121	31	2.53	1.28	16				
DURANT	2678	8	50.5	31	-1.8	83	29	19	10	477	66	29	12	5.460	31	1.72	1.92	16				
ELMORE CITY	2872	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.390	31	*****	2.19	17				
GRADY	3688	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.160	31	*****	1.04	17				
HEALDTON	4001	8	44.3	22	*****	85	29	18	11	461	*****	6	*****	5.760	23	*****	2.13	16				
HENNEPIN	4052	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	3.963	31	*****	1.99	16				
KETCHUM RAN	4780	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	7.110	31	*****	2.75	16				
KINGSTON	4865	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.401	31	2.84	2.05	16				
LEHIGH	5108	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.054	31	*****	2.30	8				
LINDSAY	5216	8	47.7	31	-5	87	28	17	10	555	160	19	6	6.110	31	3.22	2.81	15				
LOCO	5247	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.430	31	*****	1.78	16				
MADILL	5468	8	48.4	22	*****	80	29	19	13	371	*****	5	*****	7.100	22	*****	1.97	14				
MARLOW	5581	8	49.5	31	-3.5	85	28	15	12	502	116	21	7	5.271	31	2.83	2.18	16				
MCGEE CREEK	5713	8	49.8	31	*****	84	29	19	10	500	*****	30	*****	5.790	31	*****	1.61	16				
PAULS VALLEY	6926	8	46.9	30	-6.5	83	29	15	10	559	185	15	0	5.210	30	*****	2.60	15				
PONTOTOC	7214	8	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.691	31	2.04	2.20	15				
TISHOMINGO	8884	8	49.8	31	-4.4	84	28	17	10	484	135	13	-3	5.810	31	2.11	2.44	16				
WAURIKA	9395	8	50.8	31	-4	85	28	19	12	464	125	24	1	5.311	31	2.95	1.88	16				

MARCH 1998 SUMMARY FOR SOUTHEAST DIVISION (CD9)

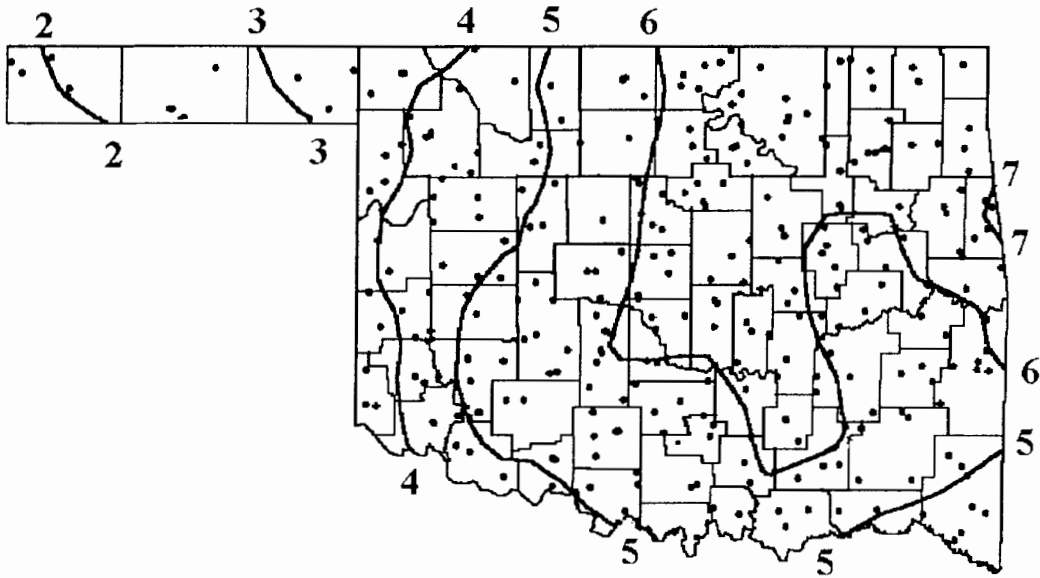
NAME	ID	CD	MEAN TEMP	NUM OBS	DEV		MIN DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		24-HR DAY		
					FROM NORM	MAX TEMP								FROM NORM	MAX			
ANTLERS	256	9	51.5	31	-2.4	83	28	19	10	452	89	34	15	5.520	31	1.73	1.40	16
BATTIEST	567	9	46.9	31	*****	81	28	17	13	572	*****	11	*****	5.940	31	*****	1.10	17
BEAR MT	584	9	46.8	26	*****	82	29	16	21	487	*****	13	*****	4.721	29	*****	1.47	19
BENGAL	670	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.450	31	*****	1.22	30
BOSWELL	980	9	50.1	31	-4.1	83	29	19	11	491	140	30	14	5.290	31	1.51	1.28	16
BROKEN BOW	1162	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.020	31	0.13	1.30	19
CARNASAW	1499	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.580	31	-0.68	1.08	19
CARTER TWR	1544	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.690	31	-0.17	1.45	15
FANSHAWE	3065	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.400	31	2.07	1.32	31
HEAVENER	4008	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	5.900	31	1.82	1.56	19
HUGO	4384	9	51.9	29	*****	83	27	20	10	406	*****	27	*****	4.860	30	*****	1.20	29
IDABEL	4451	9	51.7	31	-1.7	84	30	18	10	441	70	28	16	4.061	31	-0.79	0.90	17
PAGE	6842	9	46.0	27	*****	82	29	14	13	534	*****	21	*****	8.651	28	*****	1.47	31
POTEAU	7254	9	48.8	31	*****	84	29	17	11	529	*****	27	*****	6.940	31	*****	1.40	30
SMITHVILLE	8285	9	30.8	2	*****	49	6	12	9	69	*****	0	*****	5.303	15	*****	1.10	17
SPIRO	8416	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	6.070	31	1.76	1.29	16
TUSKAHOMA	9023	9	49.9	31	-4.1	83	28	15	12	499	140	31	13	5.670	31	1.54	1.20	31
VALLIANT	9118	9	*****	0	*****	****	0	****	0	*****	*****	*****	*****	4.560	31	0.10	1.13	19
WILBURTON	9634	9	50.2	31	-2.5	87	25	17	10	495	99	36	22	5.930	31	1.76	1.30	30
WISTER	9724	9	48.0	31	*****	83	29	16	13	558	*****	31	*****	6.230	31	*****	1.66	31

MARCH 1998 CLIMATE DIVISION SUMMARY

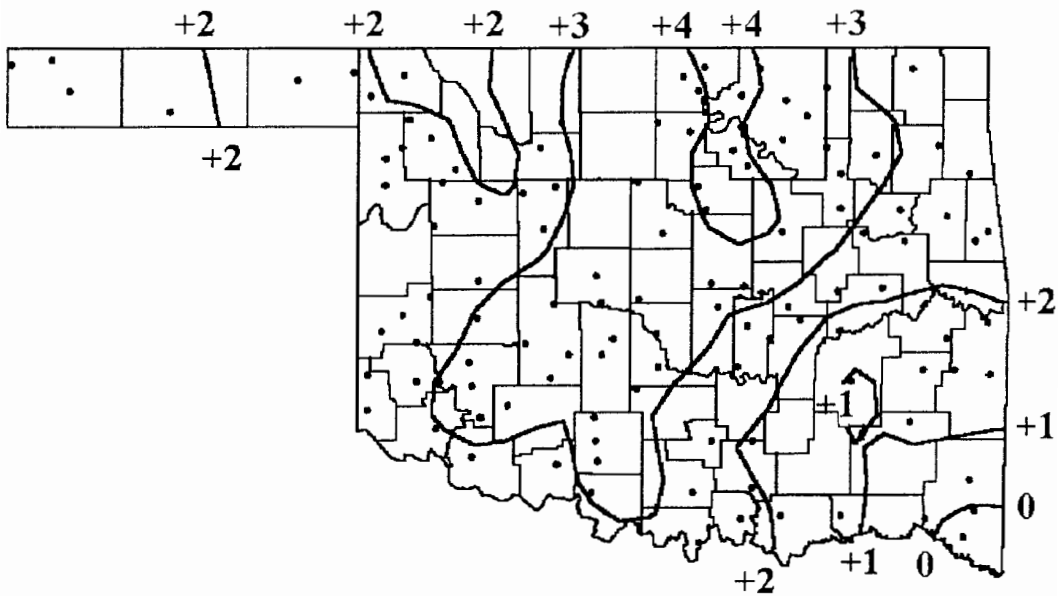
CD	MEAN TEMP	NUM OBS	DEV		MIN DAY	HEAT DEG DAY	DEV FROM NORM	COOL DEG DAY	DEV FROM NORM	TOT PPT	NUM OBS	DEV		24-HR DAY						
			FROM NORM	MAX TEMP								FROM NORM	MAX							
1	40.8	8	-4.0	9 9	4	25	8	10	754	7	153.8	5	3	3.17	1	1.85	1.8	0	16	
2	43.2	10	-5.0	2 8	7	25	4	11	684	8	162.2	12	4	5.36	1	7 3.09	2.5	5	16	
3	46.7	12	-3.0	0 8	5	28	1	10	583	3	100.3	18	9	6.60	2	2 3.16	3.4	4	16	
4	43.9	9	-5.0	5 9	2	26	1	0	11	655	7	166.4	8	1	4.69	1	7 2.77	2.5	1	16
5	47	13	-4.0	4 8	6	26	7	10	573	0	137.8	17	6	6.17	3	4 3.31	3.1	0	16	
6	48.6	9	-3.0	2 8	5	29	1	1	12	530	4	105.6	24	11	6.28	2	3 2.38	4.3	5	18
7	47.3	11	-4.0	7 9	1	25	1	4	13	561	4	147.9	17	5	5.00	1	9 3.07	3.1	7	16
8	49.1	11	-4.0	1 8	7	28	1	5	10	509	3	128.6	21	5	5.83	2	5 2.61	3.5	5	8
9	49.6	8	-4.0	1 8	7	25	1	2	9	504	4	139.6	28	12	5.52	1	6 1.04	1.6	6	31

MESONET MONTHLY SUMMARY MARCH 1998

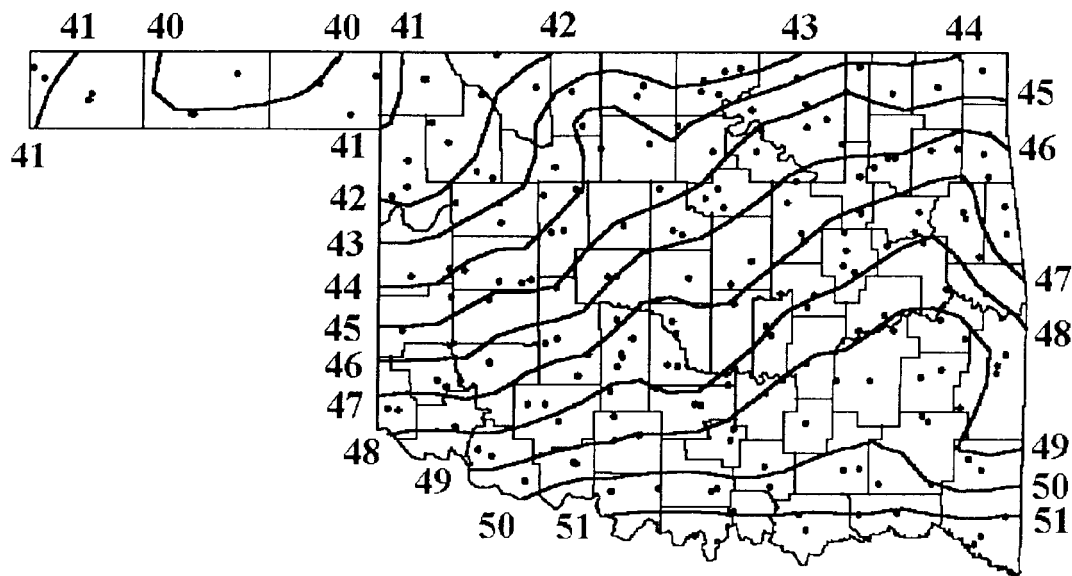
NAME	MEAN TEMP	MAX TEMP	DAY	MIN TEMP	DAY	HDD	CDD	TOT PPT	MAX 24-HR	DAY	NAME	MEAN TEMP	MAX TEMP	DAY	MIN TEMP	DAY	HDD	CDD	TOT PPT	MAX 24-HR	DAY
PANHANDLE																					
Arnett	42.2	93	25	9	10	720	14	3.70	1.40	15	Goodwell	40.1	90	25	10	10	776	3	1.69	.40	15
Beaver	40.3	91	25	6	10	772	6	2.90	.77	29	Hooker	39.5	90	25	8	10	794	2	1.94	.43	16
Boise City	39.6	86	25	10	10	788	0	1.44	.49	15	Kenton	40.7	85	25	12	11	754	1	1.50	.86	16
Buffalo	41.6	93	25	9	10	740	14	3.58	1.71	16	Slapout	40.8	91	25	7	10	762	11	2.90	.83	16
NORTH CENTRAL																					
Alva	42.5	81	25	11	10	633	4	5.01	2.35	16	May Ranch	41.4	87	25	8	12	741	10	3.86	2.09	16
Blackwell	43.7	81	25	13	10	669	10	6.13	2.32	16	Medford	42.9	78	28	12	12	690	6	4.80	2.20	16
Breckenridge	43.7	79	25	13	10	669	10	5.46	2.22	16	Newkirk	42.5	82	28	9	10	705	7	6.78	2.98	16
Cherokee	42.8	80	25	13	10	694	7	5.31	2.56	16	Red Rock	44.7	83	28	12	10	643	13	6.61	2.21	16
Fairview	42.4	78	28	12	10	642	10	5.13	2.37	16	Seiling	42.7	83	25	11	10	702	11	4.47	1.44	16
Freedom	41.9	89	25	9	10	729	11	4.89	2.03	16	Woodward	42.0	93	25	7	10	727	16	4.07	1.73	16
Lahoma	43.2	78	25	12	12	682	5	5.49	2.36	16											
NORTHEAST																					
Bixby	47.5	85	28	16	10	559	15	5.86	2.12	7	Nowata	44.4	82	28	12	10	648	9	6.57	1.98	7
Burbank	44.5	85	28	11	10	650	13	6.94	2.65	16	Pawnee	45.0	84	28	12	10	634	15	7.21	2.43	16
Catoosa	46.5	83	28	14	10	587	15	6.33	2.75	7	Pryor	45.9	82	28	14	10	603	11	7.74	3.82	7
Claremore	46.2	84	28	14	10	595	13	7.74	2.57	7	Skiatook	45.5	83	28	12	10	619	14	7.00	2.14	7
Copan	44.0	82	28	11	10	661	10	6.20	1.67	7	Tulahassee	46.3	83	28	15	12	537	12	5.02	1.61	7
Foraker	43.2	88	25	8	10	689	13	*****	*****	30	Vinita	44.3	81	28	12	10	653	10	6.33	2.23	7
Jay	45.4	81	28	12	12	620	13	6.11	1.70	7	Wynona	44.9	84	28	12	10	636	12	5.87	2.05	16
Miami	44.6	81	28	11	12	643	12	6.46	2.78	7											
WEST CENTRAL																					
Bessie	45.7	83	28	13	10	612	12	5.45	1.93	15	Putnam	43.1	81	25	12	10	688	10	4.00	1.52	15
Butler	45.0	85	25	13	10	632	13	4.19	1.75	15	Retrop	46.1	83	28	15	10	598	12	4.66	1.71	15
Camargo	42.9	88	25	11	10	697	13	3.86	1.51	15	Watonga	43.9	78	25	12	10	662	7	5.04	2.12	15
Cheyenne	44.1	91	25	11	10	664	15	4.90	2.10	15	Weatherford	43.9	78	25	13	10	659	6	5.29	1.83	15
Erick	45.3	92	25	14	10	628	16	3.53	1.52	15											
CENTRAL																					
Acme	48.3	83	28	16	12	537	18	5.47	2.20	15	Minco	46.5	80	28	14	10	585	10	5.79	2.21	15
Bowlegs	48.0	84	28	15	10	543	15	6.93	2.09	16	Ninnekah	47.9	81	25	16	10	545	16	5.72	2.21	15
Bristow	46.6	83	28	13	10	582	11	7.11	2.92	7	Norman	47.6	82	28	16	10	552	13	6.41	2.54	15
Chandler	46.8	83	28	14	10	579	14	6.79	2.03	16	Oilton	45.9	84	28	13	10	606	13	6.88	2.17	16
Chickasha	47.5	79	25	17	10	552	11	5.96	2.07	15	Okemah	47.3	83	28	14	10	562	13	6.66	1.76	15
El Reno	45.0	81	28	12	10	632	11	5.20	1.87	15	Perkins	46.0	82	28	14	10	603	14	7.36	2.18	16
Guthrie	45.7	81	28	13	12	610	12	6.38	1.99	16	Shawnee	47.1	81	28	13	10	566	11	6.34	1.78	16
Kingfisher	44.9	79	28	14	10	631	9	5.70	1.63	15	Spencer	46.9	82	28	14	10	577	16	6.78	2.32	16
Marena	45.0	83	28	10	12	632	13	6.54	2.49	16	Stillwater	45.6	84	28	14	10	617	15	7.47	2.51	16
Marshall	44.8	80	25	13	12	638	12	6.06	1.97	16	Washington	48.3	82	28	15	10	532	14	5.88	2.02	15
EAST CENTRAL																					
Calvin	49.3	84	28	17	10	504	16	7.36	3.00	16	Preston	47.4	85	28	13	10	564	19	4.09	1.29	7
Cookson	47.3	83	28	11	12	567	17	6.76	1.24	7	Sallisaw	48.1	84	28	15	12	543	18	6.37	1.26	19
Eufaula	49.7	82	28	18	12	461	17	4.57	1.99	15	Stigler	48.7	82	28	18	10	524	20	4.19	.96	16
Haskell	47.6	83	28	16	10	552	13	5.17	1.43	7	Stuart	48.9	81	28	15	10	516	18	6.92	1.88	16
Hectorville	47.4	84	28	14	10	562	17	4.69	1.60	7	Tahlequah	46.1	82	28	13	10	598	13	5.95	1.42	7
McAlester	49.3	83	28	17	10	510	24	6.86	1.76	15	Webbers Falls	48.8	85	28	19	10	526	22	6.77	1.75	15
Okmulgee	47.6	85	28	15	10	555	15	5.58	1.36	7	Westville	46.1	80	28	13	10	596	10	5.38	1.18	19
SOUTHWEST																					
Altus	48.4	83	25	18	10	532	18	4.10	2.31	15	Hollis	47.5	91	25	16	10	559	18	3.42	1.68	15
Apache	46.9	80	28	15	10	573	10	6.14	2.27	15	Mangum	46.9	85	25	14	12	576	15	4.23	1.78	15
Fort Cobb	46.7	80	28	16	10	578	11	5.68	2.35	15	Medicine Park	48.1	81	28	15	10	538	13	6.23	3.36	15
Grandfield	49.7	86	28	17	10	499	25	4.96	2.25	15	Tipton	49.4	83	25	19	10	503	20	4.42	2.42	15
Hinton	44.9	79	25	13	10	631	9	4.15	1.18	15	Walters	49.9	85	28	18	10	489	21	4.59	2.27	15
Hobart	46.5	81	25	16	10	584	12	4.69	1.51	15											
SOUTH CENTRAL																					
Ada	49.3	85	28	16	10	507	19	6.13	2.06	16	Lane	50.4	82	28	19	10	477	24	5.79	1.51	7
Ardmore	50.6	82	28	18	10	468	21	5.31	1.69	16	Madill	51.0	81	28	19	10	458	22	5.83	1.50	15
Burneyville	51.5	83	29	19	12	447	27	4.72	1.37	16	Pauls Valley	49.6	84	28	17	10	499	21	4.81	1.67	15
Byars	48.7	82	28	15	10	521	15	5.43	1.62	15	Ringling	50.5	83	23	18	10	469	20	5.43	1.82	15
Centrahoma	49.8	82	28	16	10	493	21	6.37	1.79	7	Sulphur	49.4	83	28	16	10	504	19	4.84	1.54	15
Durant	52.8	81	28	20	10	409	30	6.77	1.62	16	Tishomingo	49.8	82	28	17	10	488	18	6.52	1.97	16
Ketchum Ranch	49.7	84	28	16	10	496	21	6.64	3.03	15	Waurika	50.7	84	23	19	10	468	25	5.57	2.35	15
SOUTHEAST																					
Antlers	50.5	84	28	16	11	478	29	7.98	1.59	16	Idabel	52.1	83	29	22	10	429	29	4.14	1.03	16
Broken Bow	51.6	84	28	21	11	443	27	3.85	.84	16	Mt Herman	48.8	79	28	17	10	518	15	5.27	1.35	16
Clayton	50.6	84	28	16	12	473	27	5.31	1.07	30	Talihina	50.0	81	28	17	12	491	27	6.09	1.56	30
Cloudy	50.0	81	28	19	10	488	23	5.51	1.58	30	Wilburton	49.5	83	28	17	10	506	25	5.48	1.24	16
Hugo	51.7	82	28	20	10	441	28	4.59	.84	15	Wister	49.1	82	28	17	12	517	24	6.03	1.20	30



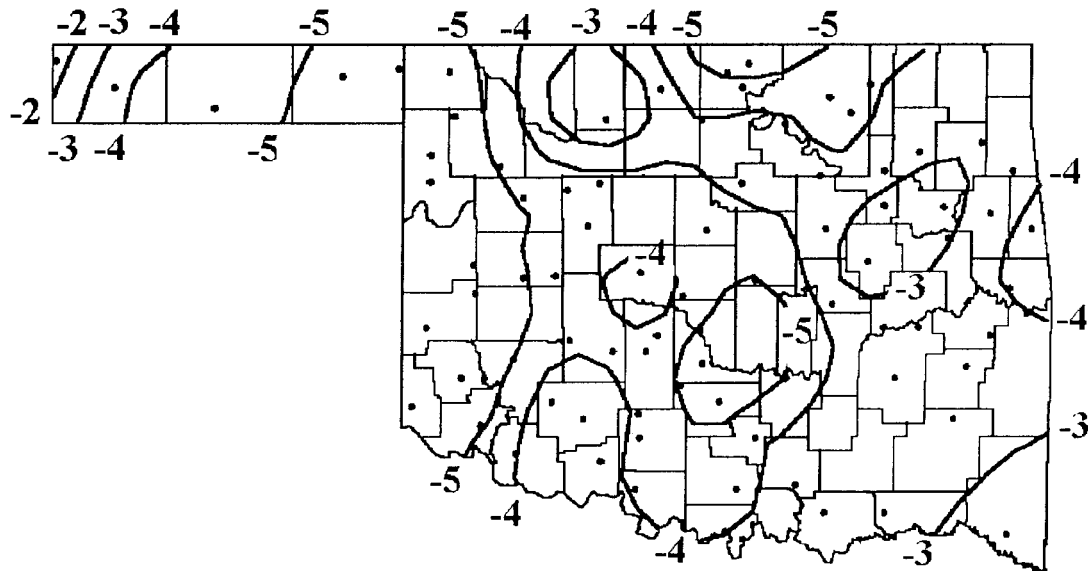
MARCH 1998 TOTAL PRECIPITATION
(INCHES)



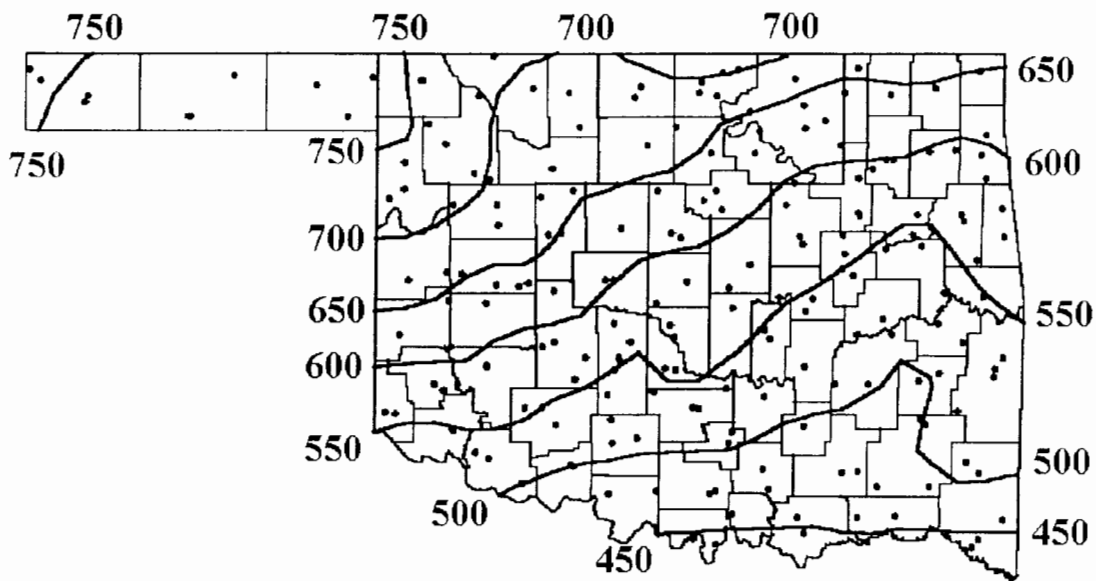
MARCH 1998 DEPARTURE FROM NORMAL PRECIPITATION
(INCHES)



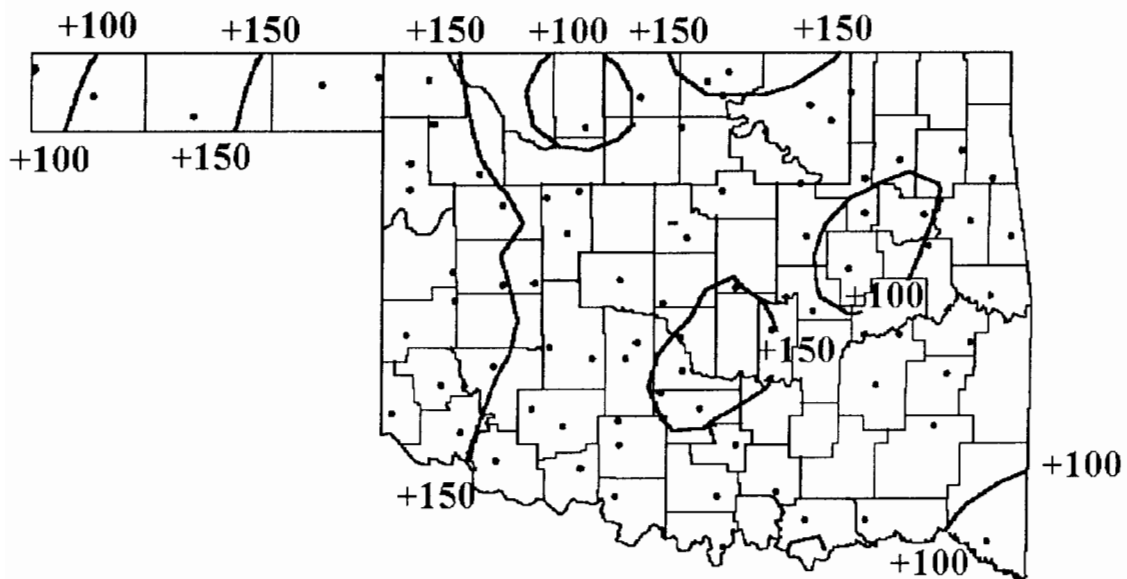
MARCH 1998 AVERAGE MONTHLY TEMPERATURE (°F)



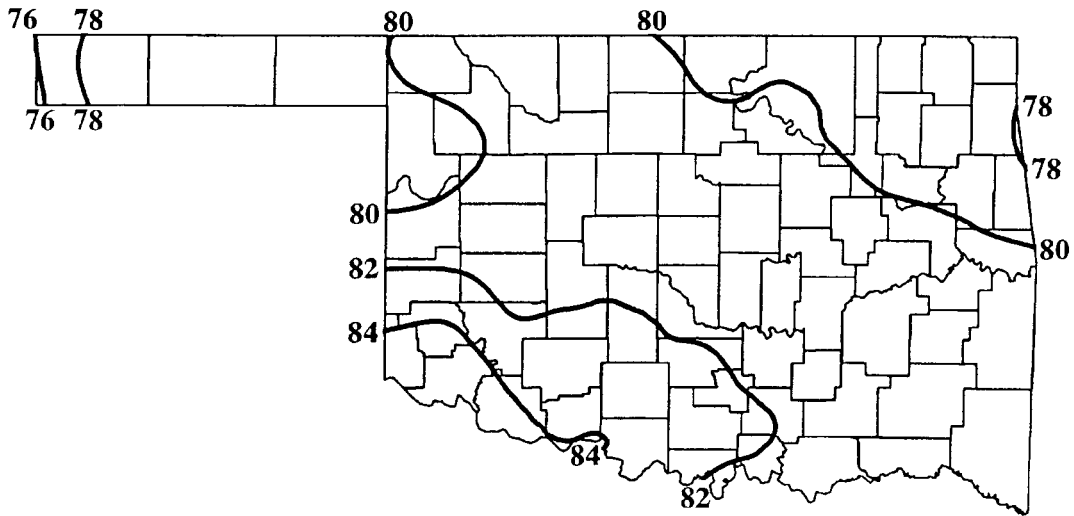
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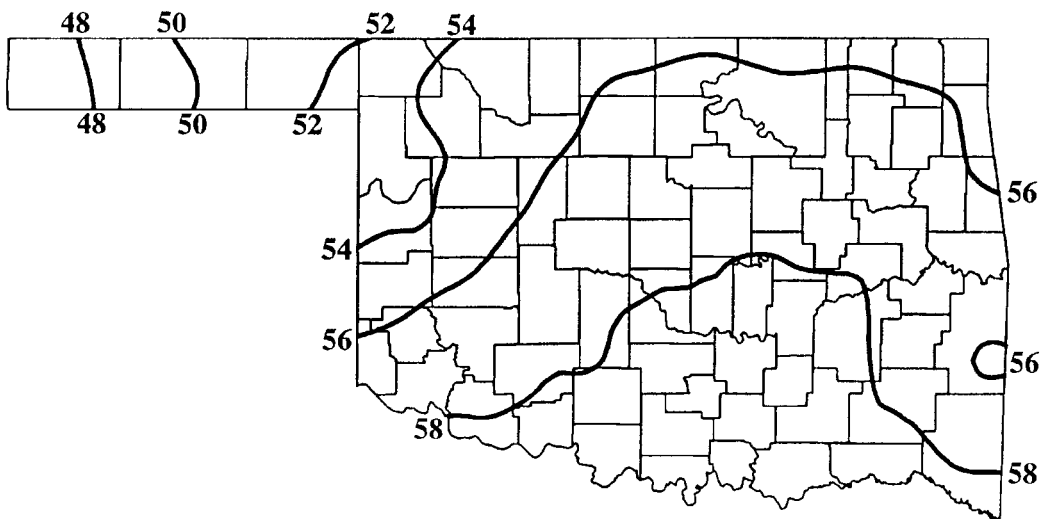
MARCH 1998 ACCUMULATED HEATING DEGREE DAYS
(°F)



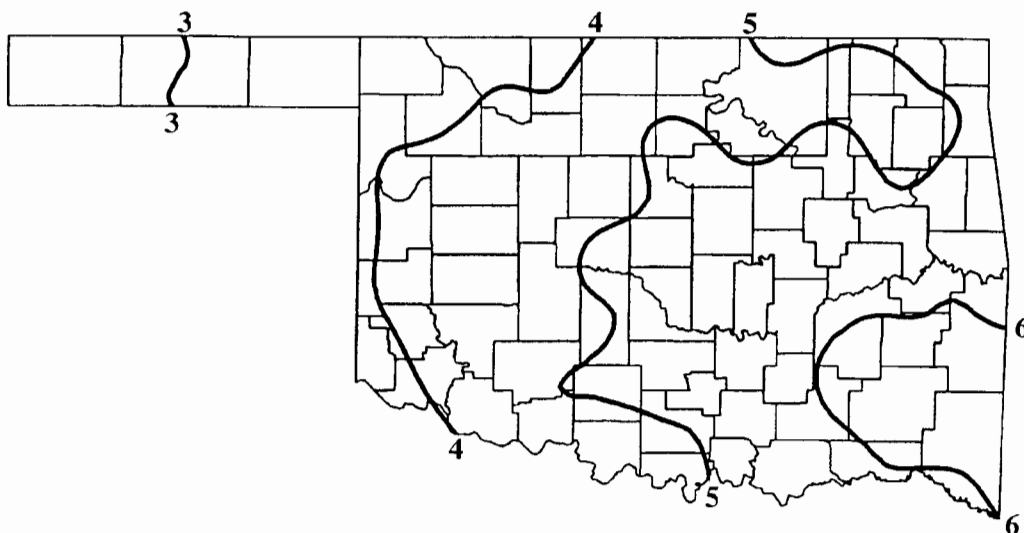
MARCH 1998 DEPARTURE FROM NORMAL HEATING DEGREE DAYS
(°F)



MAY NORMAL DAILY MAXIMUM TEMPERATURE (°F)



MAY NORMAL DAILY MINIMUM TEMPERATURE (°F)



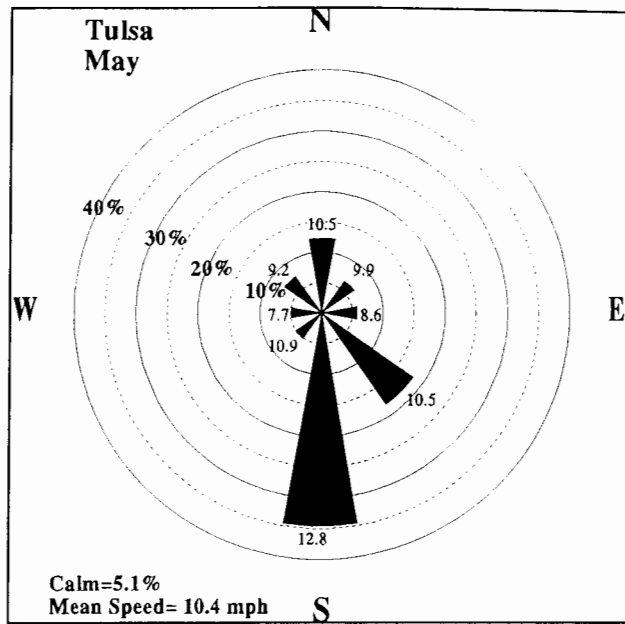
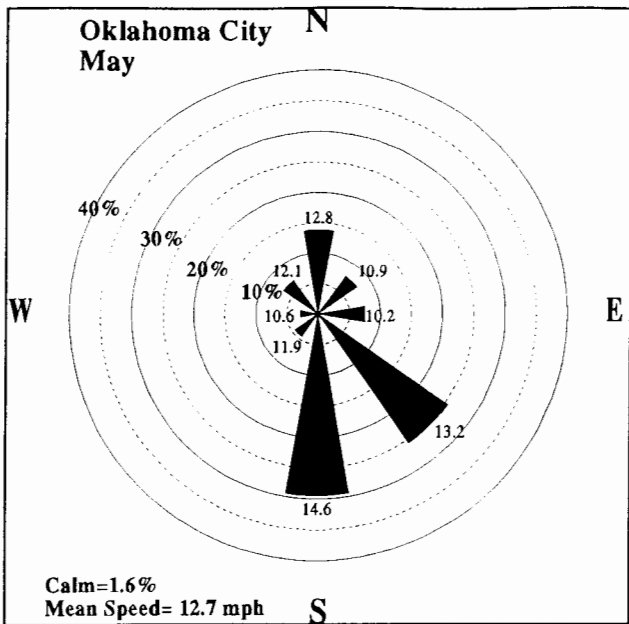
MAY NORMAL MONTHLY PRECIPITATION (inches)

OUTLOOK FOR MAY THROUGH JULY 1998

BASED ON SEASONAL OUTLOOKS PROVIDED BY THE CLIMATE PREDICTION CENTER

TEMPERATURE: Lower Than Normal Statewide

PRECIPITATION: Near Normal Statewide



May Wind Roses for Oklahoma City and Tulsa. The frequency (percent) of winds from each direction is represented by length of its bar. The numbers at the ends of the bars indicate the average wind speed from that direction in miles per hour.

SUNRISE/SUNSET TIMES FOR MAY 1998

OKLAHOMA CITY				TULSA			
DATE	SUNRISE	SUNSET	DAYLIGHT	DATE	SUNRISE	SUNSET	DAYLIGHT
98 5 1	6:40AM	8:14PM CDT	13 hrs 34 mins	98 5 1	6:32AM	8: 9PM CDT	13 hrs 37 mins
98 5 2	6:39AM	8:15PM CDT	13 hrs 36 mins	98 5 2	6:31AM	8:10PM CDT	13 hrs 39 mins
98 5 3	6:38AM	8:16PM CDT	13 hrs 38 mins	98 5 3	6:30AM	8:11PM CDT	13 hrs 41 mins
98 5 4	6:37AM	8:17PM CDT	13 hrs 40 mins	98 5 4	6:29AM	8:11PM CDT	13 hrs 42 mins
98 5 5	6:36AM	8:18PM CDT	13 hrs 41 mins	98 5 5	6:28AM	8:12PM CDT	13 hrs 44 mins
98 5 6	6:35AM	8:18PM CDT	13 hrs 43 mins	98 5 6	6:27AM	8:13PM CDT	13 hrs 46 mins
98 5 7	6:34AM	8:19PM CDT	13 hrs 45 mins	98 5 7	6:26AM	8:14PM CDT	13 hrs 48 mins
98 5 8	6:33AM	8:20PM CDT	13 hrs 47 mins	98 5 8	6:25AM	8:15PM CDT	13 hrs 50 mins
98 5 9	6:33AM	8:21PM CDT	13 hrs 48 mins	98 5 9	6:24AM	8:15PM CDT	13 hrs 51 mins
98 5 10	6:32AM	8:22PM CDT	13 hrs 50 mins	98 5 10	6:23AM	8:16PM CDT	13 hrs 53 mins
98 5 11	6:31AM	8:22PM CDT	13 hrs 52 mins	98 5 11	6:22AM	8:17PM CDT	13 hrs 55 mins
98 5 12	6:30AM	8:23PM CDT	13 hrs 53 mins	98 5 12	6:22AM	8:18PM CDT	13 hrs 56 mins
98 5 13	6:29AM	8:24PM CDT	13 hrs 55 mins	98 5 13	6:21AM	8:19PM CDT	13 hrs 58 mins
98 5 14	6:28AM	8:25PM CDT	13 hrs 56 mins	98 5 14	6:20AM	8:19PM CDT	14 hrs 0 mins
98 5 15	6:28AM	8:25PM CDT	13 hrs 58 mins	98 5 15	6:19AM	8:20PM CDT	14 hrs 1 mins
98 5 16	6:27AM	8:26PM CDT	13 hrs 59 mins	98 5 16	6:18AM	8:21PM CDT	14 hrs 3 mins
98 5 17	6:26AM	8:27PM CDT	14 hrs 1 mins	98 5 17	6:18AM	8:22PM CDT	14 hrs 4 mins
98 5 18	6:26AM	8:28PM CDT	14 hrs 2 mins	98 5 18	6:17AM	8:23PM CDT	14 hrs 6 mins
98 5 19	6:25AM	8:28PM CDT	14 hrs 4 mins	98 5 19	6:16AM	8:23PM CDT	14 hrs 7 mins
98 5 20	6:24AM	8:29PM CDT	14 hrs 5 mins	98 5 20	6:16AM	8:24PM CDT	14 hrs 8 mins
98 5 21	6:24AM	8:30PM CDT	14 hrs 6 mins	98 5 21	6:15AM	8:25PM CDT	14 hrs 10 mins
98 5 22	6:23AM	8:31PM CDT	14 hrs 7 mins	98 5 22	6:14AM	8:26PM CDT	14 hrs 11 mins
98 5 23	6:23AM	8:31PM CDT	14 hrs 9 mins	98 5 23	6:14AM	8:26PM CDT	14 hrs 12 mins
98 5 24	6:22AM	8:32PM CDT	14 hrs 10 mins	98 5 24	6:13AM	8:27PM CDT	14 hrs 14 mins
98 5 25	6:22AM	8:33PM CDT	14 hrs 11 mins	98 5 25	6:13AM	8:28PM CDT	14 hrs 15 mins
98 5 26	6:21AM	8:33PM CDT	14 hrs 12 mins	98 5 26	6:12AM	8:28PM CDT	14 hrs 16 mins
98 5 27	6:21AM	8:34PM CDT	14 hrs 13 mins	98 5 27	6:12AM	8:29PM CDT	14 hrs 17 mins
98 5 28	6:20AM	8:35PM CDT	14 hrs 15 mins	98 5 28	6:11AM	8:30PM CDT	14 hrs 18 mins
98 5 29	6:20AM	8:35PM CDT	14 hrs 16 mins	98 5 29	6:11AM	8:31PM CDT	14 hrs 20 mins
98 5 30	6:19AM	8:36PM CDT	14 hrs 17 mins	98 5 30	6:11AM	8:31PM CDT	14 hrs 21 mins
98 5 31	6:19AM	8:37PM CDT	14 hrs 18 mins	98 5 31	6:10AM	8:32PM CDT	14 hrs 22 mins

Deviation from Normal Cooling Degree Days: A positive value indicates higher than normal cooling requirements for the month as a whole. A negative value indicates lower than normal cooling requirements for the month as a whole. Normal cooling degree days may be found by subtracting the deviation from the observed cooling degree days.

Total Precipitation: Often incorrectly referred to as mean precipitation, this value is the sum of all precipitation reported during the month at a station. If snow occurred, it is to be melted and its water equivalent recorded.

Number of Precipitation Observations: The number of days a rain or no-rain observation was reported. Missing observations frequently result in artificially low total precipitation values.

Deviation from Normal Precipitation: A positive value indicates more rain than normal was received. A negative value indicates less than was expected rainfall was received. Normal rainfall may be calculated by subtracting the deviation from monthly total.

Maximum 24-Hour Report and Day: The maximum amount of precipitation recorded during the station's 24-hour observation period for the current month and year and the day on which it was recorded.

The second set of tables contain similar information but are the average or extreme over all the stations reporting in each climate division.

**** A Note To Our Readers ****

One sure way to find out whether a readership like ours is paying attention is to make an error. We sincerely apologize for the erroneous climate calendars published with last month's data summary. We offer heartfelt thanks to the readers who noticed the error and, so tactfully and gracefully (I mean it), brought the matter to our attention. As part of our "do better" effort, we decided to try a more readable format for the calendars. As before, the data were obtained from the two National Weather Service offices in the state. We have merely re-formatted the information. We will be making other cosmetic changes to our formats throughout the summary as some of us "set-in-our-ways" oldtimers allow our bright younger associates to do some things their way. We haven't had a general face-lift in some time and one is due. Our goal is to continue producing a useful and readable, though improved, print summary that is accompanied by an electronic twin on the world wide web. The web version of the summary is probably several months away, but we are working on it. Thanks for your patience and for your readership. We appreciate all comments and suggestions - both flattering and otherwise.

Howard L. Johnson

OKLAHOMA CITY CLIMATE CALENDAR
DATA COURTESY OF NATIONAL WEATHER SERVICE NORMAN.

The data on this calendar is for Oklahoma City.
 Normal values are calculated for the period 1961-1990
 Temperature extremes are for the period 1891-1997
 Precipitation extremes for the period 1891-1997

MAY

Day	Avg. Temp	High	Record High	Year	Lowest Max	Year	1998	Avg. Low	Highest Min	Year	Record Low	Year	1998	Avg. Ppt.	Greatest Ppt.	Year	1998
1	62.8	73.0	93	1948	53	1966		52.7	66	1938	33	1909		0.09	1.63	1954	
2	62.9	73.6	94	1943	51	1994		52.2	69	1959	39	1961		0.19	2.99	1990	
3	64.1	74.5	95	1920	49	1978		53.8	70	1949	32	1954		0.10	3.58	1898	
4	65.4	76.8	93	1955	44	1935		54.0	72	1950	34	1907		0.12	3.60	1898	
5	67.3	77.4	94	1940	50	1935		57.2	69	1940	37	1917		0.15	4.24	1899	
6	66.5	77.0	92	1918	48	1908		56.0	70	1986	37	1944		0.10	2.61	1930	
7	66.2	77.4	93	1955	55	1893		55.0	71	1927	39	1917		0.06	2.27	1892	
8	66.9	78.4	96	1918	50	1943		55.3	70	1927	37	1917		0.11	6.64	1993	
9	67.0	77.7	93	1895	55	1943		56.3	70	1963	40	1923		0.15	3.37	1943	
10	66.0	75.6	96	1967	53	1954		56.3	71	1963	40	1924		0.31	4.71	1950	
11	66.5	76.7	94	1923	54	1954		56.3	70	1963	37	1981		0.07	2.85	1920	
12	66.4	76.9	93	1992	55	1914		55.9	72	1956	39	1979		0.19	2.26	1982	
13	66.7	77.2	95	1984	49	1953		56.3	69	1991	39	1971		0.18	2.58	1983	
14	67.1	78.2	92	1952	55	1934		56.0	70	1899	41	1953		0.14	2.48	1986	
15	68.3	79.0	90	1966	48	1945		57.6	72	1996	38	1907		0.14	3.59	1920	
16	69.6	80.8	92	1966	56	1920		58.5	75	1974	42	1945		0.19	1.81	1986	
17	68.8	78.9	96	1966	61	1986		58.6	74	1974	40	1945		0.35	3.17	1951	
18	69.4	80.1	95	1956	59	1943		58.7	72	1996	45	1976		0.11	1.50	1902	
19	69.7	81.0	96	1973	61	1943		58.4	72	1996	40	1894		0.22	3.35	1955	
20	69.4	79.6	94	1990	63	1942		59.2	74	1902	43	1981		0.28	2.74	1979	
21	70.7	81.3	95	1953	56	1968		60.0	73	1953	42	1892		0.15	2.81	1922	
22	70.9	81.0	98	1939	57	1892		60.7	74	1953	42	1931		0.18	3.09	1952	
23	70.6	80.8	99	1939	60	1963		60.5	76	1996	42	1892		0.20	4.16	1908	
24	71.1	80.8	94	1939	59	1995		61.3	74	1996	42	1935		0.12	4.06	1903	
25	72.1	82.5	93	1990	59	1995		61.7	72	1965	47	1947		0.15	1.49	1968	
26	71.0	81.5	96	1953	58	1950		60.5	74	1916	45	1901		0.32	3.22	1995	
27	70.4	81.3	96	1927	59	1893		59.5	74	1912	42	1907		0.37	5.38	1987	
28	71.3	81.3	93	1895	52	1992		61.3	71	1942	43	1947		0.20	2.33	1987	
29	72.1	82.6	94	1985	57	1902		61.6	73	1989	39	1947		0.30	5.63	1970	
30	73.0	83.2	104	1985	64	1915		62.8	74	1974	45	1947		0.20	1.67	1958	
31	72.5	82.0	98	1934	54	1903		63.0	74	1991	44	1983		0.22	2.14	1892	
MONTH	68.5	79.0	104	1985	44	1935		58.0	76	1996	32	1954		2.62	6.64	1993	

* The most tornadoes reported in May for Oklahoma was 61 in 1960.

TULSA CLIMATE CALENDAR
 DATA COURTESY OF NATIONAL WEATHER SERVICE TULSA.

MAY

The data on this calendar is for Tulsa.
 Normal values are calculated for the period 1961-1990
 Temperature extremes are for the period 1905-1997
 Precipitation extremes are for the period 1888-1997

Day	Avg. Temp	Avg. High	Record High Year	Lowest Max Year	1998	Avg. Low	Highest Min Year	Record Low Year	1998	Avg. Ppt	Greatest Ppt. Year	1998
1	66	77	89 1948	53 1966		55	71 1936	32 1909		0.16	2.10 1944	
2	66	77	94 1943	50 1994		55	69 1959	32 1909		0.16	1.70 1980	
3	66	77	96 1920	52 1978		55	68 1938	36 1976		0.16	2.19 1979	
4	66	77	96 1920	51 1935		55	72 1950	36 1954		0.17	2.30 1913	
5	67	77	92 1952	51 1935		56	71 1964	36 1907		0.17	2.88 1913	
6	67	77	90 1952	59 1944		56	71 1986	36 1944		0.17	2.50 1973	
7	67	78	93 1918	52 1910		56	72 1986	40 1931		0.17	4.09 1995	
8	67	78	97 1918	53 1943		56	71 1996	37 1938		0.18	3.66 1961	
9	67	78	93 1918	61 1924		57	72 1948	38 1923		0.18	6.15 1943	
10	68	78	93 1963	54 1924		57	71 1963	41 1909		0.18	4.36 1950	
11	68	78	94 1980	58 1912		57	74 1956	39 1924		0.18	2.83 1992	
12	68	79	91 1992	57 1939		57	75 1956	40 1960		0.18	4.05 1982	
13	69	79	93 1911	51 1953		58	72 1991	44 1976		0.18	4.47 1933	
14	69	79	93 1911	54 1907		58	70 1991	44 1976		0.18	2.51 1956	
15	69	79	95 1911	52 1945		58	72 1996	35 1907		0.19	2.05 1910	
16	69	80	94 1931	52 1945		59	74 1974	40 1907		0.19	1.40 1943	
17	69	80	94 1911	65 1935		59	76 1974	40 1907		0.19	1.89 1928	
18	70	80	94 1987	65 1952		59	74 1996	45 1976		0.19	2.48 1960	
19	70	80	94 1911	65 1981		60	74 1996	46 1968		0.19	3.91 1949	
20	70	80	94 1956	64 1967		60	71 1982	42 1981		0.19	2.50 1902	
21	71	81	95 1925	56 1968		60	73 1962	45 1915		0.19	1.90 1978	
22	71	81	93 1953	56 1917		61	77 1953	44 1931		0.19	2.10 1902	
23	71	81	93 1939	62 1963		61	75 1953	41 1917		0.19	1.47 1947	
24	71	82	94 1911	63 1956		61	75 1996	42 1935		0.19	3.16 1908	
25	72	82	94 1911	64 1995		61	75 1996	45 1925		0.19	1.80 1974	
26	72	82	94 1926	60 1992		62	73 1916	44 1925		0.19	2.40 1984	
27	72	82	94 1911	65 1992		62	75 1912	45 1961		0.18	6.95 1984	
28	72	83	94 1926	53 1992		62	73 1991	45 1947		0.18	2.08 1905	
29	72	83	98 1926	62 1947		62	76 1989	40 1947		0.18	1.60 1903	
30	73	83	98 1934	59 1964		63	76 1989	45 1947		0.18	2.71 1976	
31	73	83	100 1934	63 1907		63	77 1991	49 1930		0.18	2.50 1926	
MONTH	69.3	79.7	100 1934	50 1994		58.5	77 1991	32 1909		5.60	6.95 1984	

* The average number of tornadoes reported in Oklahoma during the month of May is 18.5.